gagggcccctgctcagatttttggattcttggtcaggagacgttgt tactcccggggacgagtctaaaaacctaagaaccagtcctctgcaaca ACTAGTCGACATGAGGGCCCCTGCTCAGTTTTTTGGCTTCTTG-3' Α C AA MKV4 PRIMER agaaatgagaccgtctattcagttcctggggctcttgttgttctggcttcatgg 49 tctttactctggcagataagtcaaggaccccgagaacaacaagaccgaagtacc G L F S Ι 0 G ſΜ R LEADER tgctcagtgtgacatccagatgacacagtctccatcctcactgtctgcatctct 103 acgagtcacactgtaggtctactgtgtcagaggtaggagtgacagacgtagaga Т 0 S S S S C1 [D Ι 0 М FR1 gggaggcaaagtcaccatcacttgcaagacaagccaagacattaacaagtatat 157 ccctccgtttcagtggtagtgaacgttctgttcggttctgtaattgttcatata G Т Ι Т C][K T S 0 D Ι М CDR1 ggcttggtaccaacacaagcctggaaaacgtcctaggctgctcatacattacac 211 ccgaaccatggttgtgttcggaccttttgcaggatccgacgagtatgtaatgtg Κ Ρ G K R Р R L Ι H] [Y A] [W FR2 atctgcattacagccaggcatcccatcaaggttcagtggaagtgggtctgggag 265 tagacgtaatgtcggtccgtagggtagttccaagtcaccttcacccagaccctc P][G S R 0 CDR2

FIG.1A



FIG.1B

atgaaatgcagctgggtcatgttcttcctgatggcagtggttacaggg tactttacgtcgacccagtacaagaaggactaccgtcaccaatgtccc ACTAGTCGACATGAAATGCAGCTGGGTCATCTTCTTC-3' MHV1 PRIMER S F М Α ГΜ Κ C W М L LEADER gtcaattcagaggttcagctgcagcagtctggggcagagcttgtgaagccaggg $cagtta a \verb|gtctcc| tcca a \verb|gtcgtcgtcagacccc| gtctcgaacacttcggtccc|$ V K S G Ε S][E V 0 L 0 Q Α FR1 $\tt gcctcagtcaagttgtcctgcacagcttctggcttcaacattaaagacacctat$ 103 cggagtcagttcaacaggacgtgtcgaagaccgaagttgtaatttctgtggata T Y C G Ι K] [D S V K S Т CDR1 atacactgtgtgaagcagaggcctgaacagggcctggagtggattggaaggatt 157 tatgtgacacacttcgtctccggacttgtcccggacctcacctaaccttcctaa H1 [C K R Ε Q G L Ε W Ι G] [R Ι Ι FR2 $\tt gatcctgcgaatggttatactaaatatgacccgaagttccagggcaaggccact$ 211 ctaggacgcttaccaatatgatttatactgggcttcaaggtcccgttccggtga Υ P K F 0 G1 [K Т G Υ Т K CDR2 ataacagctgacacatcctccaacacagcctacctgcagctcagcagcctgaca 265 tattgtcgactgtgtaggaggttgtgtcggatggacgtcgagtcgtcggactgt S S T Ι FR3

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FIG. 2A

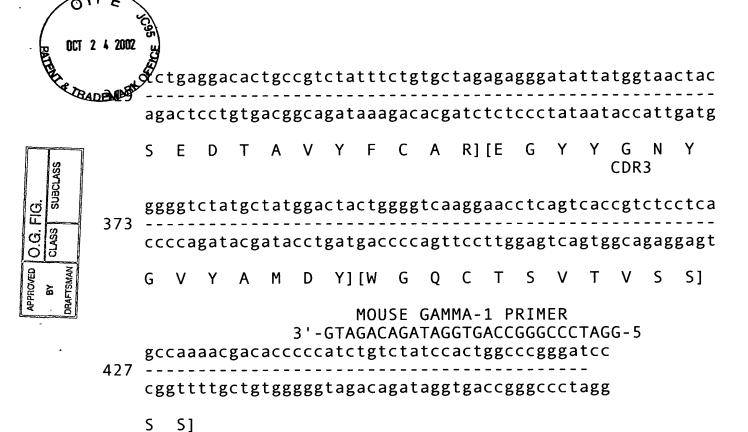
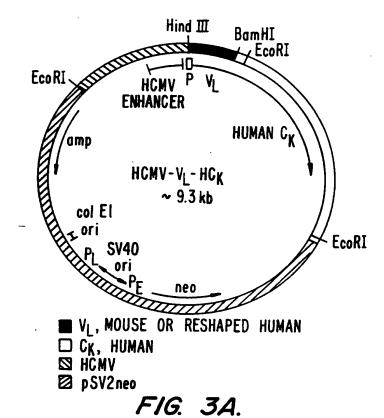


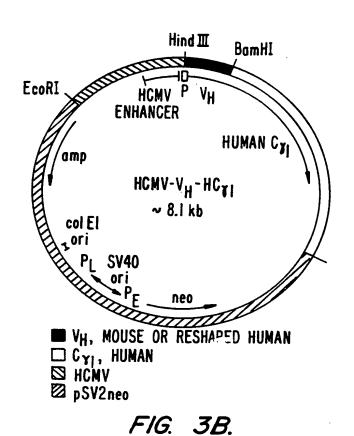
FIG. 2B

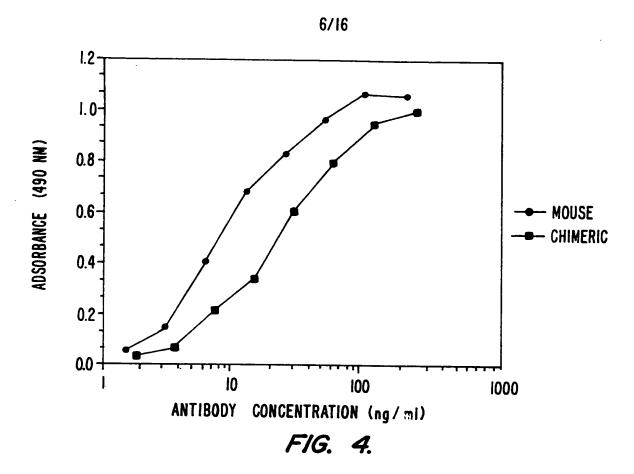
APPHOVED O.G. FIG.
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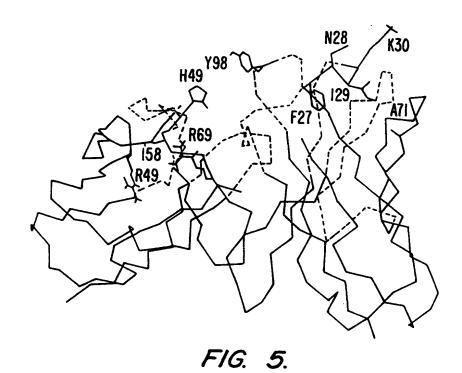


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APPROVED O.G. FIG.
BY CLASS SUE 567890123456789 0123456 * *** 21.6 DIQMTQSPSSLSASLGGKVTITC KTSQDINKYMA WYQHKPGKRPRLLIH YTSALQP DIQMTQSPSSLSASVGDRVTITC QASQDIIKYLN WYQQTPGKAPKLLİY EASNLQA DIQMTQSPSSLSASVGDRVTITC KTSQDINKYMA WYQQTPGKAPRLIH YTSALQP CDR2 DRAFTSMAN 12345678901234567890123 45678901234 * CDR1 FR1

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		199	IK	II.	11	:
FR4	10	89012345	FGGGTKLE	FGQGTKLC	FGQGTKVE	:
CDR3	6	901234567	LQYDNL-WT	QQYQSLPYT	LQYDNL-WT	
FR3	6 7 8	78901234567890123456789012345678 901234567 8901234567 * * * * * * * *	21.6 GIPSRFSGSGSGRDYSFNISNLEPEDIATYYC LQYDNL-WT FGGGTKLEIK	GVPSRFSGSGSGTDYTFTISSLQPEDIATYYC QQYQSLPYT FGQGTKLQIT	G <u>I</u> PSRFSGSGSGRDYTFTISSLQPEDIATYYC LQYDNL-WT FGQGTK <u>VE</u> IK	í
			21.(REI	La	;

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CVKQRPEQGLEWIG RIDPANGYTKYDPKFQG 2*CL QVQLVQSGAEVKKPGASVKVSCKASGYTFT SYAMH WVRQAPGQRLEWMG WINAGNGNTKYSQKFQG 67890123456789 012A3456789012345 QVQLVQSGAEVKKPGASVKVSCKASG<u>ENIK</u> DTYIH WVRQAPGQRLEWMB RIDPANGYTKYDPKFQG CDR2 F.R2 123456789012345678901234567890 12345 21.6 EVQLQQSGAELVKPGASVKLSCTASGFNIK DTYIH CDR1

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APPROVED O.G. FIG. CLASS

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		•				
FR4	77	34567890123	WGQGTSVTVSS	WGQGTLVTVSS	WGQGTLVTVSS	
CDR3	10	567890ABCDEF12	EGYYGNYGVYAMDY	GGYYGSGSNY	RSEDTAVYYCAR EGYYGNYGVYA DY WGQGTLVTVSS	1
FR3	ע	3456789012ABC345678901234 567890ABCDEF12 34567890123	TSSNTAYLQLSSLTSEDTAVYFCAR EGYYGNYGVYAMDY WGQGTSVTVSS	TSASTAYMELSSLRSEDTAVYYCAR GGYYGSGSNY WGQGTLVTVSS	RSEDTAVYYCAR	
	∞	67890123456789012 <i>F</i> *	21.6 KATITADTSSNTAYLQLS	2*CL RVTITRDTSASTAYMELS	RVTIT <u>A</u> DTSASTAYMF	A
			21.6	2*CL	На	Hb

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0.G. FIG.	CLASS		
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APCR1		VIA2	VIA4_	VIA6	-
	LEADER	FRI	FR2	FR3	FR4
		VIA1	VIA3	VIA5	_VIA7
APCR1	A	VIA1	1ST PCR	VIA5	
		VIA2 B	VIA3	VIA6	D VIA7
APCR1	E		2ND PCR	·	
			<u>'VIA4 </u>	F	VIA7
APCR1			3RD PCR		VIA7

FIG. 8.





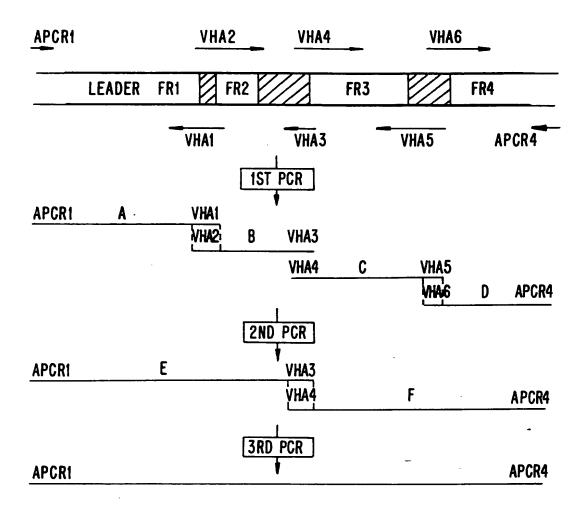


FIG. 9.

RADEMAR HindIII KOZAK SEQUENCE $a a \verb|gctt| \verb|gccgccaccatg| a \verb|gaccgtctattcagttcctggggctcttgttgttc|$ ttcgaacggcggtggtactctggcagataagtcaaggaccccgagaacaacaag L L Ι Q F L G [M LEADER CLASS tggcttcatggtgctcagtgtgacatccagatgacacagtctccatcctcactg accgaag taccacgag t cacactg tagg tctactg tg tcagag g tagg ag tg accept a consistency of the consistency ofS S 1 Ι М Т 0 C][D 0 FR1 tctgcatctGTAggaGATAGAgtcaccatcacttgcaagacaagccaagacatt agacgtagaCATcctCTATCTcagtggtagtgaacgttctgttcggttctgtaaDRVTITC][K T CDR1 a a caa g tatat g g ctt g g taccaa CAGA CAcct g g a a a a GCT cct a g g ct g ct can be expressed as a case of the contract o163 ttgttcatataccgaaccatggttGTCTGTggaccttttCGAggatccgacgag Q K K Υ A] [W FR2 atacattacacatctgcattacagccaggcatcccatcaaggttcagtggaagt tatgta atgtgtagacgta atgtcggtccgtagggtagttccaagtcaccttcaS L 0 P][G Ι Р S R F S Α $\tt gggtctgggagagattatACTttcACCatcagcAGCctgCAGcctgaagatatt$ 271 -

FIG. 10A

 $\verb|cccagaccctctctaataTGAaagTGGtagtcgTCGgacGTCggacttctataa| \\$

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FIG.	SUBCLASS	
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gcaacttattattgtctacagtatgataatctgtggacgttcggtCAAggcacc

cgttgaataataacagatgtcatactattagacacctgcaagccaGTTccgtgg

A T Y Y C][L Q Y D N L W T][F G Q G T CDR3 FR4

SPLICE DONOR SITE BamHI aagGTGgaaatcaaacgtgagtggatcc

379 ------ttcCACctttagtttgcactcacctagg

FIG. 10B

HindIII KOZAK SEQUENCE AAGCTT<u>GCCGCCACCATG</u>GACTGGACCTGGCGCGTGTTTTTGCCTGCCCGTG TTCGAACGGCGGTGGTACCTGACCTGGACCGCGCACAAAACGGACGAGCGGCAC R F C ſΜ LEADER GCTCCTGGGGCCCACAGCCAGGTGCAACTAGTGCAGTCCGGCGCCGAAGTGAAG CGAGGACCCCGGGTGTCGGTCCACGTTGATCACGTCAGGCCGCGGCTTCACTTC DRAFTSM S 51[Q V Q L 0 Н AAACCCGGTGCTTCCGTGAAAGTCAGCTGTAAAGCTAGCGGTttcaacattaaa 109 TTTGGGCCACGAAGGCACTTTCAGTCGACATTTCGATCGCCAaagttgtaattt S C K S G Ι K] [K ٧ Α K FR1 $\tt gacacctatatacacTGGGTTAGACAGGCCCCtGGCCAAaGGCTgGAGTGGATg$ $\verb|ctgtggatatatgtgACCCAATCTGTCCGGgGaCCGGTTtCCGAcCTCACCTAc| \\$ P G Q T Y Ι H][W V R Q Α R L FR2 CDR1 GGaaggattgatcctgcgaatggttatactaaatatgacccgaagttccagggc 217 CCttcctaactaggacgcttaccaatatgatttatactgggcttcaaggtcccg K Υ D G1IТ G1 [R Ι

V T I T A D T S A S T A Y M E L S FR3

 $\verb|cgggtcACCatcACCgcaGACACCTCTgccagcACCGCCTACATGGAACTGTCC| \\$

gcccagTGGtagTGGcgtCTGTGGAGAcggtcgTGGCGGATGTACCTTGACAGG

CDR2

FIG. 11A



APPROVED O.G. FIG.

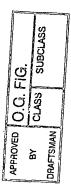
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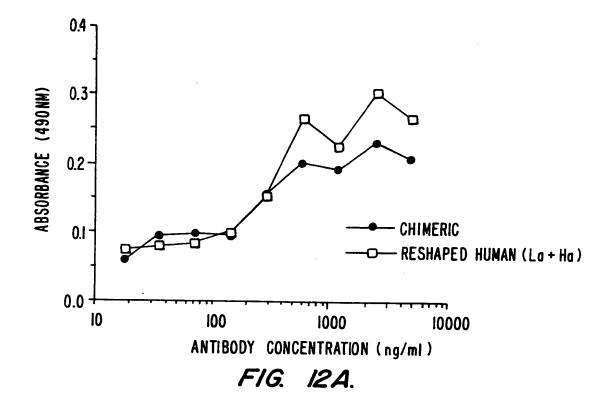
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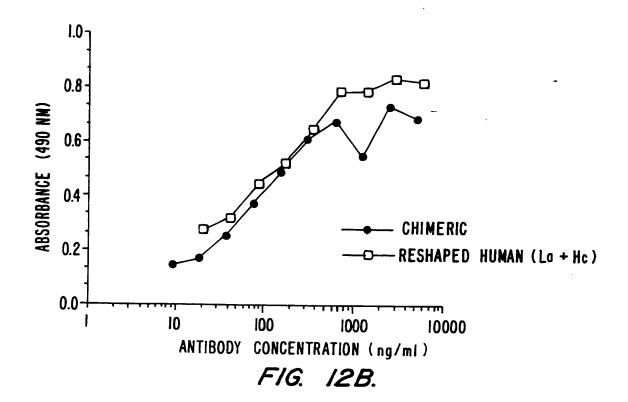
 ${\tt AGCCTGCGCTCCGAGGACACTGCAGTCTACTACTGCGCCCagaggggatattat}$ 325 TCGGACGCGAGGCTCCTGTGACGTCAGATGATGACGCGGtctctccctataata C RITE Α $\tt ggtaactacggggtctatgctatgGACTAcTGGGGtCAaGGaACCCTTGTCACC$ 379 $\verb|ccattgatgccccagatacgatacCTGATgACCCCaGTtCCtTGGGAACAGTGG| \\$ D Y][W G Q G Τ Y G М FR4 CDR3 **SPLICE DONOR SITE BamHI GTCtccTCAGGTGAGT**GGATCC CAGaggAGTCCACTCACCTAGG S] S

FIG. 11B





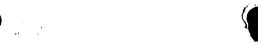




APPROVED O.G. FIG.

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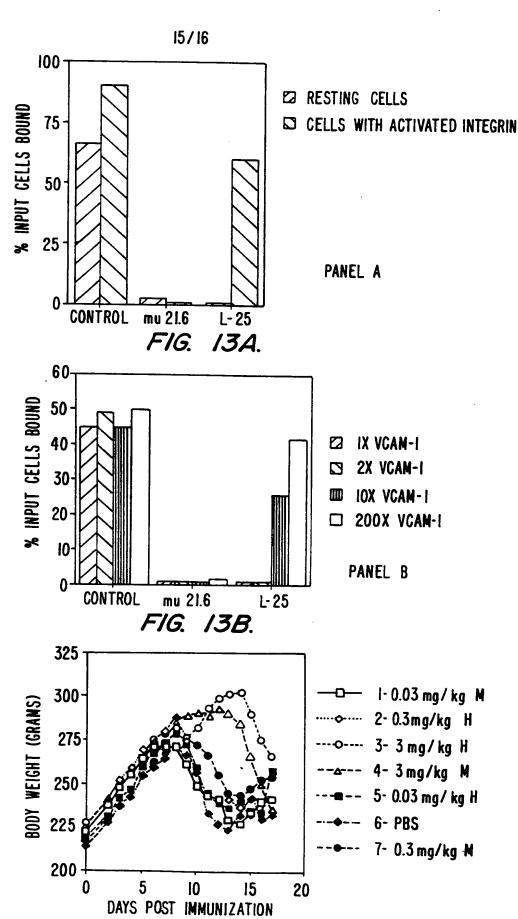


FIG.

14.

APPROVED O.G. FIG.



